



Accurate Vehicle Counting

For Garages and Surface Lots

The eleven-x Vehicle Counting solution, integrated with our eXactpark™ smart parking and curbside management solution, extends our industry-leading stall occupancy monitoring technology to include zone monitoring in environments such as garages and surface lots. Accurate real-time vehicle counts, better usage data collection, and easy support enables unmatched parking guidance and a better way to manage parking assets

Product Overview

Using proven eleven-x sensor technology, the patented Vehicle Counting solution has been developed using purpose-built SCS-X Vehicle Counting sensors to deliver features including:

- Highly accurate vehicle counting - 98.4%
- Industry-leading vehicle separation (1-second between vehicles)
- Compatibility with eXactpark and SPS-X stall monitoring sensors
- Long-life batteries with replaceable surface-mount options
- Smart and easy resetting options to eliminate count drift

Operational capabilities enabled include:

- Real-time occupancy data capture and actionable insights
- Unmatched parking guidance capabilities
- Visibility into peak usage periods
- Works at entry and exit points and levels in garages
- Reliable audit trail by aligning entry/exit data with pay systems
- Increased driver confidence through accurate availability information



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Vehicle Counting Specifications

COMMUNICATIONS

Wireless Communications Technology: BLE and LoRa
Range: Per LoRaWAN® specs

PERFORMANCE

Count Accuracy: 98.4%
Vehicle Detection Time (Latency): 1 second
Min Counter Update Time: 20 seconds (adjustable)
Detects Direction: No
Sensing Technology: One magnetometer, temperature

POWER

Stated Battery Life: 4 years
Replaceable Batteries: Surface mount yes, in-ground no
Battery Capacity: 17,500/19,000 mAh (surface/in-ground)

ENVIRONMENTAL

Load Rating: 37,000 lbs.
Humidity Range: 0 to 98%
Operating Temperature: -40°F to 185°F
Enclosure Certifications: IP67+
Warranty Period: One year

PLATFORM

Platform Integration: Fully integrated with **eXactpark™** and **eXactnav™**

VEHICLE BEHAVIOUR

Max Vehicle Speed Supported: 20 mph
Max Dwell Time: 2 min (configurable)
Supported Vehicle Types: Cars, SUV's, trucks and most standard vehicles. Motorcycles are not guaranteed.
Min Distance Between Vehicles: 1 meter
Minimum Vehicle Separation Time: 1 second

MECHANICAL

Dimensions (mm): 192x192x25 (surface mount), 101x150x46 (in-ground)
Mounting Options: Surface or fully in-ground

Surface Mount Sensor

- L: 192 mm (7.5")
- W: 192 mm (7.5")
- H: 25 mm (0.9")



Subsurface Sensor

- L: 150 mm (4.1")
- W: 101 mm (4")
- H: 46 mm (1")

Other Installation Requirements

INSTALLATION

Other: One piece install (not including LoRa gateway)
Vehicle Counting Sensors: eleven-x's SCS-X embedded or surface mount sensor connected to the eXactpark solution

Epoxy: Used to install in-ground sensors, not needed for above ground sensors

LoRaWAN Gateway: A LoRa gateway is needed to connect the car counting sensor to eXactpark.

Requires an internet connection

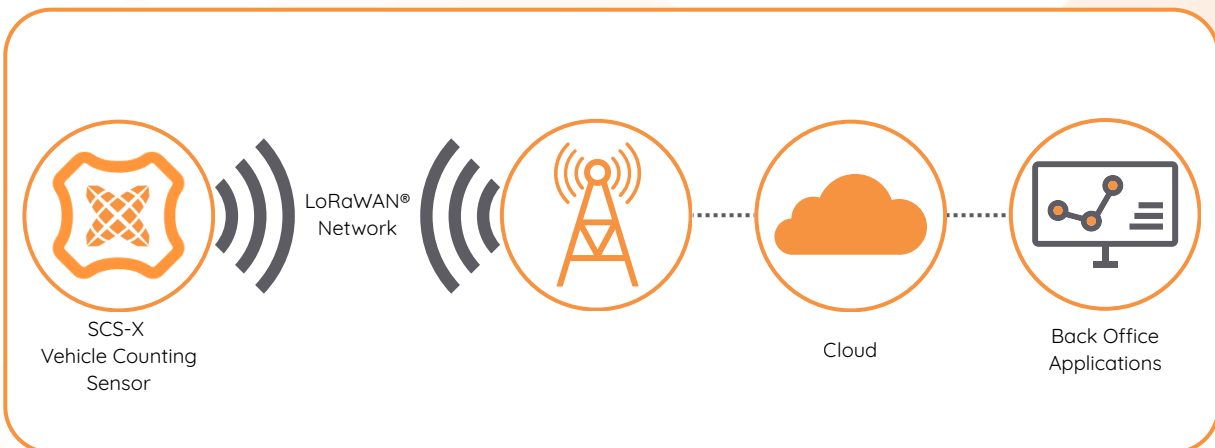
Installation App: Android app (iOS not available) that supports the installation, setup/configuration and diagnosis of the car counting sensor(s) and system

SYSTEM

eXactpark Solution: eleven-x's cloud-based solution supports real-time monitoring of occupancy, calibration, monitoring and diagnosis of sensors and system status and errors

Bollards/Barriers: Used to help ensure vehicles pass directly over the sensors

Speed Bumps: Used to control vehicle speed at sensor locations (≤ 20 mph)



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